ACTUAL PROBLEM FROM THE 2004 CALIFORNIA STATE SPECIFIC PROFESSIONAL LAND SURVEYING EXAMINATION

Based on concerns about the preparedness of candidates for the California State Specific Professional Land Surveying examination and at the recommendation of the Standard Setting Committee (whose members are practicing professional land surveyors) for the 2004 California State Specific Professional Land Surveying examination, the Board is releasing one question from one problem, along with the correct response and the answer criteria, from the 2004 California State Specific Professional Land Surveying examination. **23%** of the candidates got the correct answer for this question. Please be aware that this question is only a portion of an entire problem from the examination.

PROBLEM 4 – PROBLEM STATEMENT

Use the information below to solve the Problem Requirements

You are working on a project to establish control for aerial mapping of a 25-square mile project located on San Nicholas Island (Channel Islands). You have been asked to provide control coordinates in the appropriate state plan coordinate system.

PROBLEM REQUIREMENTS

Answer the following in the Solution Booklet for Problem 4. Make no assumptions. Only the answers placed in the Problem 4 Solution Booklet will be graded. Your calculations do not need to be shown and will not be graded.

Question 7.

You are asked to convert a project coordinate from meters to feet.
Given X = 1,925,786.624m and Y = 542,065.352m, what values (to the nearest hundredth of a foot) should be reported to the client?

CORRECT RESPONSE AND ANSWER CRITERIA
Answer: 2 points

Only the numerical answers in the boxes below are required, with units.

X or E = (X x 39.37)/12
X or E = (1,925,786.624 x 39.37)/12
X or E = 6,318,184.95ft ± 0.02ft

Y or N = (Y x 39.37)/12
Y or N = (542,065.352 x 39.37)/12
Y or N = 1,778,426.08ft ± 0.02ft

Units must include one of the following:
0.00', 0.00ft, 0.00sft, 0.00feet, 0.00 US Survey Feet, 0.00 Survey Feet

NOTICE: The release of this question does not change the secured nature of the entire April 2004 California State Specific Professional Land Surveying examination; all other questions and problems from the April 2004 California State Specific Professional Land Surveying examination remain secured.